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Inventor:	SEKIYA HIROSHI (JP); INOUE TAKASHI (JP)
Applicant:	SANYO ELECTRIC CO (JP)
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A Stirling cycle engine (100) comprising: a housing (1) having at least one cylinder; a motor element disposed in the housing (1); a Stirling refrigerator (20) portion driven by the motor element (4); and the cylinder (2) being made to be a cross guide for a piston or a displacer (36) of the Stirling refrigerator portion (20). Thus, it is possible to provide a desired Stirling cycle engine, for example, a Stirling refrigerator, a Stirling engine generator, etc. with a single configuration.

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